

KELLOGG COMMUNITY COLLEGE

INDUSTRIAL MACHINE TOOL

2011-2012

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Unit / Module	Number	Packet Title	Credit	Contact Hours	Lab Fees	Tuition	Total Cost
UNIT 1 MACHINE TOOL BASICS							
<input type="checkbox"/>	INMT 1B	MACHINERY'S HANDBOOK	0.17	4	8.00	26.44	34.44
UNIT TOTAL			0.17	4	8.00	26.44	34.44
UNIT 2 MACHINE TOOL SAFETY							
<input type="checkbox"/>	INMT 2A	MACHINE TOOL SAFETY	0.17	4	75.00	26.44	101.44
UNIT TOTAL			0.17	4	75.00	26.44	101.44
UNIT 3 BLUEPRINT READING							
<input type="checkbox"/>	INMT 3A	MACHINE TOOL BLUEPRINT READ	0.83	20	50.00	129.07	179.07
<input type="checkbox"/>	INMT 3B	GEOMETRIC DIM & TOLERANCING	0.33	8	50.00	51.32	101.32
UNIT TOTAL			1.16	28	100.00	180.39	280.39
UNIT 4 FUNDAMENTAL SKILLS							
<input type="checkbox"/>	INMT 4A	BASIC SHOP MATH	0.67	16	55.00	104.19	159.19
<input type="checkbox"/>	INMT 4B	MACHINE TOOL MATH	0.75	18	55.00	116.63	171.63
<input type="checkbox"/>	INMT 4D	MACHINIST SCALE	0.08	2	10.00	12.44	22.44
<input type="checkbox"/>	INMT 4F	DIVIDERS	0.08	2	10.00	12.44	22.44
<input type="checkbox"/>	INMT 4G	SPRING CALIPERS	0.08	2	10.00	12.44	22.44
<input type="checkbox"/>	INMT 4H	COMBINATION SQUARE	0.08	2	10.00	12.44	22.44
<input type="checkbox"/>	INMT 4J	HERMAPHRODITE CALIPERS	0.08	2	10.00	12.44	22.44
<input type="checkbox"/>	INMT 4K	SURFACE GAGE	0.08	2	10.00	12.44	22.44
<input type="checkbox"/>	INMT 4M	IDENTIFYING SURFACE FINISHES	0.08	2	10.00	12.44	22.44
UNIT TOTAL			1.98	48	180.00	307.90	487.90
UNIT 5 PRECISION MEASUREMENT							
<input type="checkbox"/>	INMT 5A	MICROMETER	0.13	3	8.00	20.22	28.22
<input type="checkbox"/>	INMT 5B	CALIPERS: DIGITAL, VERN, DIAL	0.17	4	8.00	26.44	34.44
<input type="checkbox"/>	INMT 5C	TELESCOPING GAGE	0.13	3	8.00	20.22	28.22
<input type="checkbox"/>	INMT 5D	DEPTH MICROMETER	0.13	3	8.00	20.22	28.22
<input type="checkbox"/>	INMT 5E	DIAL INDICATORS	0.13	3	8.00	20.22	28.22
<input type="checkbox"/>	INMT 5F	GAGE BLOCKS	0.13	3	8.00	20.22	28.22
<input type="checkbox"/>	INMT 5G	MACHINE SHOP TRIGONOMETRY	0.67	16	8.00	104.19	112.19
<input type="checkbox"/>	INMT 5H	HEIGHT GAGE	0.17	4	8.00	26.44	34.44
<input type="checkbox"/>	INMT 5J	SINE BAR	0.17	4	8.00	26.44	34.44
<input type="checkbox"/>	INMT 5K	CMM FUNDAMENTALS	0.25	6	8.00	38.88	46.88
<input type="checkbox"/>	INMT 5L	CMM PART INSPECTION	0.67	16	8.00	104.19	112.19
UNIT TOTAL			2.75	65	88.00	427.68	515.68
UNIT 6 DRILL PRESS AND BAND SAW							
<input type="checkbox"/>	INMT 6A	SHOP MATH-SPEEDS & FEEDS	0.21	5	20.00	32.66	52.66
<input type="checkbox"/>	INMT 6B	SHARPENING DRILL BITS	0.25	6	8.00	38.88	46.88
<input type="checkbox"/>	INMT 6C	DRILLING ON THE DRILL PRESS	0.17	4	8.00	26.44	34.44
<input type="checkbox"/>	INMT 6D	REAMING ON THE DRILL PRESS	0.13	3	8.00	20.22	28.22
<input type="checkbox"/>	INMT 6E	COUNTERBOR, SPOT FAC, & COUNT	0.21	5	8.00	32.66	40.66

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UNIT 6 DRILL PRESS AND BAND SAW (continued)							
<input type="checkbox"/>	INMT 6F	HAND TAP ON THE DRILL PRESS	0.21	5	8.00	32.66	40.66
<input type="checkbox"/>	INMT 6G	POWER TAP ON THE DRILL PRESS	0.25	6	8.00	38.88	46.88
<input type="checkbox"/>	INMT 6H	DRILL PRESS PROJECT	0.58	14	15.00	90.19	105.19
<input type="checkbox"/>	INMT 6J	BAND SAW BLADE WELDING	0.25	6	8.00	38.88	46.88
<input type="checkbox"/>	INMT 6K	VERTICAL BAND SAW PROJECT	0.25	6	8.00	38.88	46.88
UNIT TOTAL			2.51	60	99.00	390.35	489.35
UNIT 7 TURNING ON LATHE							
<input type="checkbox"/>	INMT 7A	MAINTAINING THE LATHE	0.17	4	20.00	26.44	46.44
<input type="checkbox"/>	INMT 7B	GRINDING LATHE TOOLS	0.25	6	20.00	38.88	58.88
<input type="checkbox"/>	INMT 7C	FACING ON THE LATHE	0.21	5	20.00	32.66	52.66
<input type="checkbox"/>	INMT 7D	ALIGNING LATHE CENTERS	0.17	4	20.00	26.44	46.44
<input type="checkbox"/>	INMT 7E	PARAL TURN & FILL ON THE LATHE	0.21	5	20.00	32.66	52.66
<input type="checkbox"/>	INMT 7F	GROOVE & PART ON THE LATHE	0.13	3	20.00	20.22	40.22
<input type="checkbox"/>	INMT 7G	CUT RADIUS & EXTERNAL TAPERS	0.50	12	8.00	77.75	85.75
<input type="checkbox"/>	INMT 7H	KNURLING ON THE LATHE	0.13	3	8.00	20.22	28.22
<input type="checkbox"/>	INMT 7J	BORING INTERNAL TAPERS	0.67	16	8.00	104.19	112.19
<input type="checkbox"/>	INMT 7K	CUTTING EXTERNAL THREADS	0.50	12	8.00	77.75	85.75
<input type="checkbox"/>	INMT 7L	CUTTING INTERNAL THREADS	0.42	10	8.00	65.31	73.31
<input type="checkbox"/>	INMT 7M	LATHE PROJECT	1.25	30	28.00	194.38	222.38
UNIT TOTAL			4.61	110	188.00	716.90	904.90
UNIT 8 ELECTRONIC DISCHARGE MACHINING							
<input type="checkbox"/>	INMT 8A	EDM FUNDAMENTALS	0.29	7	8.00	45.10	53.10
<input type="checkbox"/>	INMT 8B	EDM PROJECT	0.50	12	14.00	77.75	91.75
UNIT TOTAL			0.79	19	22.00	122.85	144.85
UNIT 9 VERTICAL/HORIZONTAL MILLING							
<input type="checkbox"/>	INMT 9A	DIAL IN VISE/TRAM IN HEAD	0.21	5	20.00	32.66	52.66
<input type="checkbox"/>	INMT 9B	FLY CUTTER & END MILL/SQ BLOCK	0.21	5	22.00	32.66	54.66
<input type="checkbox"/>	INMT 9C	TILT HEAD & TURN VISE/CUT V	0.50	12	20.00	77.75	97.75
<input type="checkbox"/>	INMT 9D	DIGITAL READ/DRILL, TAP & REAM	0.25	6	20.00	38.88	58.88
<input type="checkbox"/>	INMT 9E	TURNTABLE/CUT RADII	0.33	8	20.00	51.32	71.32
<input type="checkbox"/>	INMT 9F	HORIZONTAL MILLING/SAW SLOT	0.17	4	20.00	26.44	46.44
<input type="checkbox"/>	INMT 9G	SINE PLATE/CUT ANGLES	0.33	8	20.00	51.32	71.32
<input type="checkbox"/>	INMT 9H	BORING HEAD/BOR 4 HOLES	0.33	8	8.00	51.32	59.32
<input type="checkbox"/>	INMT 9J	INDEXING HEAD/KEYWAYS	0.17	4	8.00	26.44	34.44
<input type="checkbox"/>	INMT 9K	MATH FOR DIVIDING HEAD	0.17	4	8.00	26.44	34.44
<input type="checkbox"/>	INMT 9L	DIVIDING HEAD/CUT GEAR	0.42	10	10.00	65.31	75.31
<input type="checkbox"/>	INMT 9M	UNIVERSAL INDEXING HEAD	0.50	12	14.00	77.75	91.75
<input type="checkbox"/>	INMT 9N	5C COLLET HOLDERS/CUT SQ & HEX	0.33	8	8.00	51.32	59.32
<input type="checkbox"/>	INMT 9P	MAKE DOVE TAILS	0.67	16	18.00	104.19	122.19
<input type="checkbox"/>	INMT 9Q	MILL PROJECT	1.25	30	30.00	194.38	224.38
UNIT TOTAL			5.84	140	246.00	908.18	1154.18

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UNIT 10 SURFACE GRINDING							
<input type="checkbox"/>	INMT 10A	SQUARE A BLOCK (6 SIDES)	0.25	6	8.00	38.88	46.88
<input type="checkbox"/>	INMT 10B	GRIND ANGLES AND RADII	0.50	12	8.00	77.75	85.75
<input type="checkbox"/>	INMT 10C	OPERATE THE AUTOMATIC GRINDER	0.42	10	8.00	65.31	73.31
<input type="checkbox"/>	INMT 10D	COMPLETE TWO PROJECTS TO PRINT	1.58	38	13.00	245.69	258.69
UNIT TOTAL			2.75	66	37.00	427.63	464.63
UNIT 11 CYLINDRICAL GRINDING							
<input type="checkbox"/>	INMT 11A	PARALLEL GRIND TO PRINT	1.00	24	16.00	155.50	171.50
<input type="checkbox"/>	INMT 11C	EXTERNAL/INTERNAL TAPERS	0.50	12	10.00	77.75	87.75
UNIT TOTAL			1.50	36	26.00	233.25	259.25
UNIT 12 TOOL AND CUTTER GRINDING							
<input type="checkbox"/>	INMT 12A	SHARPEN END MILLS (END)	1.00	24	8.00	155.50	163.50
<input type="checkbox"/>	INMT 12B	SHARPEN END MILLS (SIDES)	1.00	24	8.00	155.50	163.50
<input type="checkbox"/>	INMT 12C	SHARPENING VARIOUS CUTTERS	1.00	24	13.00	155.50	168.50
UNIT TOTAL			3.00	72	29.00	466.50	495.50
UNIT 13 CNC PROGRAMMING AND MACHINING							
<input type="checkbox"/>	INMT 13A	CNC FUNDAMENTALS	0.83	20	50.00	129.07	179.07
<input type="checkbox"/>	INMT 13B	CNC TURNING	1.67	40	50.00	259.69	309.69
<input type="checkbox"/>	INMT 13C	CNC MILLING	1.67	40	50.00	259.69	309.69
<input type="checkbox"/>	INMT 13D	CNC ADVANCED PROGRAMMING	2.08	50	50.00	323.44	373.44
UNIT TOTAL			6.25	150	200.00	971.89	1171.89
UNIT 14 MACHINE TOOL PROJECTS							
<input type="checkbox"/>	INMT 14A	SINE BAR	0.83	20	12.00	129.07	141.07
<input type="checkbox"/>	INMT 14B	PRECISION VICE	2.08	50	38.00	323.44	361.44
<input type="checkbox"/>	INMT 14C	1-2-3 BLOCKS	1.00	24	20.00	155.50	175.50
<input type="checkbox"/>	INMT 14D	TOOL MAKERS V-BLOCKS	1.67	40	20.00	259.69	279.69
UNIT TOTAL			5.58	134	90.00	867.70	957.70
PROGRAM TOTAL			39.06	936	1388.00	6074.10	7462.10

FOR OFFICE USE ONLY

Instructor Approval _____ Date _____

Total Credit _____ Total Contact _____ Total Cost _____